AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

- 1. (currently amended) A welding apparatus for welding an element to a component, the apparatus comprising:
 - a) a hand held welding gun including an element holder;
 - b) a welding gauge that is fixed to the component; and
- c) a positioner attached to the gun, the positioner being elongated greater than and substantially parallel to an externally exposed portion of the element holder;

wherein the positioner <u>maintains</u> is calibrated to maintain a known distance between the element and the component, when the positioner is in physical contact with the gauge.

- 2. (currently amended) The apparatus of Claim 1, wherein the element is a metal stud and the component is a metal sheet, and the gauge has an offset section to engage a curved surface of the sheet.
- 3. (currently amended) The apparatus of Claim 1 [[2]], wherein the element is a metal weld stud and the component is a metal sheet are parts of a motor vehicle, and the weld stud is stroke ignition, drawn arc-welded onto the sheet.

- 4. (currently amended) The apparatus of Claim 1, further comprising an elongated positioner removably inserted into a receiver of alignment feature in the welding gauge, the positioner abutting against a bottom of the receiver.
- 5. (currently amended) The apparatus of Claim 4, wherein the gauge includes alignment feature is a hole through which the element and the holder extend, the hole being at least twice as wide as the holder.
- 6. (currently amended) The apparatus of Claim 1 [[5]], wherein depth of the gauge hole is adjustable.
- 7. (currently amended) The apparatus of Claim 4, wherein the <u>positioner</u> alignment feature is a <u>rod-like</u> pin.
- 8. (currently amended) The apparatus of Claim 1, <u>further comprising a threaded adjustment member attached to the gauge, the member contacting the component wherein the gauge has at least three alignment features.</u>
- 9. (currently amended) The apparatus of Claim 1, further comprising a second positioner, wherein the positioners are elongated, rod-like 8, wherein the alignment features are a combination of holes and pins.

- 10. (currently amended) The apparatus of Claim 1, further comprising adjusting the distance of a portion of the gauge relative to the component in a repeatable manner 4, wherein a positioner utilizes an alignment feature.
- 11. (currently amended) The apparatus of Claim 1 [[6]], wherein the [[a]] positioner is inserted into a [[the]] hole in the gauge.
- 12. (currently amended) The apparatus of Claim 1 [[8]], further comprising at least three positioners.
- 13. (currently amended) The apparatus of Claim 1, wherein the gauge is a plastic material 12, wherein each positioner utilizes an alignment feature.
- 14. (currently amended) The apparatus of Claim 12, wherein the <u>positioners</u> alignment features are placed in a triangle pattern around the element.
- 15. (currently amended) A welding system for joining a piece to a part, the system comprising:
 - a) a hand welder operably welding the piece to the part;
 - b) a holder operably holding the element relative to the part;
- c) a positioner offset <u>relative to</u> behind the anterior end of the holder and being attached to the welder; and

- d) a welding gauge coupled to the part when the positioner is in contact with the gauge, the piece being a distance from the part the gauge including a through hole operably receiving the holder, the gauge further including a receiver having a bottom operably contacting the positioner, the receiver being adjacent the hole.
- 16. (currently amended) The apparatus of Claim 15, wherein the piece is a metal stud and the part is a metal sheet, and the gauge is three dimensionally contoured to engage a curved surface of the sheet.
- 17. (original) The apparatus of Claim 16, wherein the metal stud and the metal sheet are parts of a motor vehicle.
- 18. (original) The apparatus of Claim 15, further comprising an alignment feature in the welding gauge.
- 19. (currently amended) The apparatus of Claim 18, wherein the alignment feature is a hole 15, further comprising a threaded member extending between the gauge and the part.
- 20. (currently amended) The apparatus of Claim 19, wherein the threaded member allows the depth of the hole of the gauge to be [[is]] adjustable relative to the part.

- 21. (currently amended) The apparatus of Claim <u>15</u> [[18]], wherein the positioner alignment feature is a pin which is longer than the holder of the welder.
- 22. (currently amended) The apparatus of Claim 15 [[18]], wherein the gauge has at least three positioners alignment features.
- 23. (currently amended) The apparatus of Claim 15, further comprising a second positioner, wherein the positioners are elongated, rod-like 22, wherein the alignment features are a combination of holes and pins.
- 24. (currently amended) The apparatus of Claim <u>15</u> [[18]], wherein <u>the hole in</u> the gauge has a rectangular peripheral shape a positioner utilizes an alignment feature.
- 25. (currently amended) The apparatus of Claim 15, further comprising a second receiver, with a bottom, mating with a second elongated positioner extending from the welder substantially parallel to the first positioner and the holder 20, wherein a positioner is inserted into the hole.
- 26. (currently amended) The apparatus of Claim 15 [[22]], further comprising at least three positioners.
- 27. (currently amended) The apparatus of Claim 15, wherein the gauge is a plastic material 26, wherein each positioner utilizes an alignment feature.

- 28. (currently amended) The apparatus of Claim 26, wherein the <u>positioners</u> alignment features are placed in a triangle pattern around the <u>holder element</u>.
- 29. (currently amended) A process including a welding gauge to weld an element to a component using a hand held welder, the process comprising:
 - a) attaching the welding gauge to the component;
 - b) holding the element in the welder;
- c) contacting setting the element against a predetermined distance from the component through a hole in the gauge;
 - d) <u>turning on a pilot current;</u>
 - e) lifting the element away from the component to create an electric arc;
 - f) turning on a welding current;
- g) lowering the element onto the component to mingle the molten material; and
- h) solidifying the combined molten material to weld welding the element to the component.
- 30. (currently amended) The process of Claim 29, wherein the element is a metal stud and the component is a metal sheet, further comprising engaging a curved surface of the sheet with a three dimensionally contoured section of the gauge.

- 31. (original) The process of Claim 30, wherein the metal stud and the metal sheet are parts of a motor vehicle.
- 32. (currently amended) The process of Claim 29, further comprising removably inserting an elongated positioner into a mostly enclosed receiver of alignment feature in the welding gauge.
- 33. (currently amended) The process of Claim 32, wherein the gauge includes alignment feature is a hole through which the element and an element holder of the welder extends, the hole being at least twice as wide as the holder.
- 34. (currently amended) The process of Claim 33, further comprising adjusting the depth of the gauge hole.
- 35. (currently amended) The process of Claim 32, wherein the <u>positioner</u> alignment feature is a pin <u>which is longer than an element-holder of the welder.</u>
- 36. (currently amended) The process of Claim 32, wherein the gauge has at least three gauge-positioners alignment features.
- 37. (currently amended) The process of Claim 29, further comprising aligning 36, wherein the alignment features are a combination of holes and elongated, rod-like pins.

- 38. (currently amended) The process of Claim 29, further comprising adjusting the distance of a portion of the gauge relative to the component in a repeatable manner 32, wherein a positioner utilizes an alignment feature.
- 39. (currently amended) The process of Claim 34, wherein a positioner is inserted into the hole 29, further comprising adjusting a threaded member attached to the gauge, the member contacting the component.
 - 40. (cancelled).
- 41. (currently amended) The process of Claim 29, further comprising making the gauge from a plastic material 40, wherein each positioner utilizes an alignment feature.
- 42. (currently amended) The process of Claim <u>36, further comprising placing</u>
 40, wherein the <u>positioners</u> alignment features are placed in a triangle pattern around the element
 - 43. (cancelled).
 - 44. (new) A stud welding apparatus comprising:
 - a) a stud welder;

- b) a gauge including at least one through-hole operably aligned with the welder;
- c) at least one positioner extending between and operably positioning the welder relative to the gauge, the gauge being disengaged from the welder after welding; and
- d) at least one adjustable member including a section attached to the gauge and a workpiece-contacting end extending from a side of the gauge substantially opposite the positioner.
- 45. (new) The apparatus of Claim 44, wherein the adjustable member is externally threaded, the welder is a hand-held welding gun, and the gauge is disengagable from the welder without requiring loosening of any fasteners.